GenTran CORPORATION

Ovation™ Series
Automatic Transfer Switches

Introducing... The New Standard in Automatic Transfer Switches

For Residential and Light Commercial Backup Power Applications up to 50 kW

Model ATS1001D
NEMA 1

Model ATS2001D
NEMA 1

Model ATS2002R
NEMA 3R

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Indoor Outdoor	ATS1001D ATS1001R	ATS2001D ATS2001R	ATS2002R
# Circuits D R	14 16	38 38	4 (in addition to indoor panel)
Enclosure Type	NEMA 1 NEMA 3R	NEMA 1 NEMA 3R	NEMA 3R
GEN Main	100 Amp 2-pole	125 Amp 2-pole	200 Amp 2-pole
UTIL Main	100 Amp 2-pole	200 Amp 2-pole	200 Amp 2-pole
Voltage	120/240 V	120/240 V	120/240 V
Phase	60 Hz, 1 phase	60 Hz, 1 phase	60 Hz, 1 phase
Poles	2	2	2
Max Generator Size in Watts	Up to 25,000	Up to 30,000	Up to 50,000
AIC Rating of Mains	10,000 *(22,000 also available)*	22,000	10,000 *(22,000 also available)*
Dimensions	24" x 14.3" x 3.93" 28" x 14.5" x 4.25"	42" x 14.3" x 3.93" 41" x 14.5" x 4.25"	23.5" x 18.5" x 4.25" Aluminum
Unit Weight lbs	28 27	46 43	23

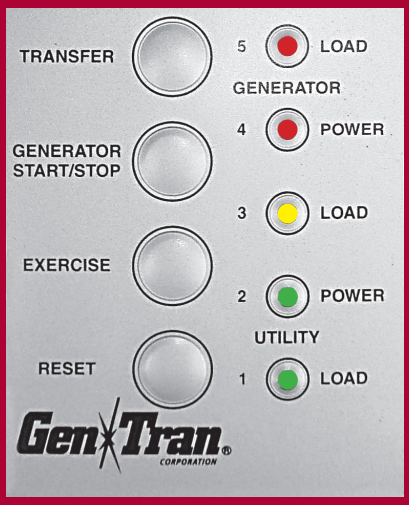
UNIQUE FEATURES:

- *Combines a load center and Automatic Transfer Switch into one for faster installation*
- *All models Service Entrance Rated at no additional cost*
- *Installs as main load center OR subpanel*
- *Compatible with virtually any stationary generator up to 50kW*
- *Listed with interchangeable type branch breakers from Siemens®, Square D®, Cutler-Hammer® and GE®. (Note: Branch circuit breakers provided by installer.)*
- *User Interface/Control Module with LEDs included on all models*
- *Programmable exercise interval from 0, 7, 14 or 28 days which can significantly reduce fuel costs over time*
- *Indoor (NEMA 1) models can be flush or surface mounted. Outdoor (NEMA 3R) models can be surface mounted.*
- *Subfeed lugs provided on all models to easily support additional panels*
- *Adjustable generator start-up delay from 5 - 60 minutes to comply with certain ordinances*
- *Optional PowerPause™ Load Management modules for up to six 240V circuits (or 12 x 120V circuits) available for all models. Load management keeps you from overloading the generator while allowing you to run more loads when generator capacity is available.*
- *Microprocessor-controlled, open-transition, circuit breaker-based switching with manual override*
- *For 120/240V single phase applications up to 50 kW*
- *Standard models include 10,000 or 22,000 AIC-rated main breakers. 22,000 AIC-rated mains also available. Order model ATSXXXXX-22.*
- *2-Year Warranty*
- *Protected by US Patents US 6,861,596 B2 and D562,266 S and other patents pending.*

OVATION™ ATS INSTA

HOW OVATION™ WORKS:

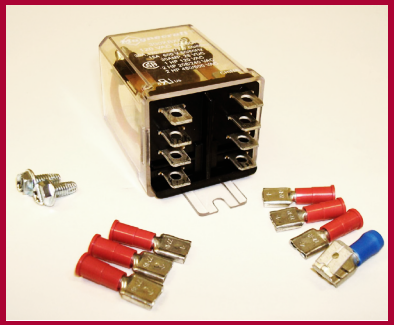
- *After a sustained power loss of 5 seconds, the Ovation ATS will start the generator.*
- *Once the system verifies the proper voltage and frequency output of the generator, the system transfers the load to generator after a 15 second delay.*
- *Once utility power has been restored, the system waits 60 seconds to retransfer load back to utility to make sure utility power has stabilized.*
- *Five minutes after retransfer, the system completes generator cooldown and shut off.*



CONTROL MODULE DISPLAYS:

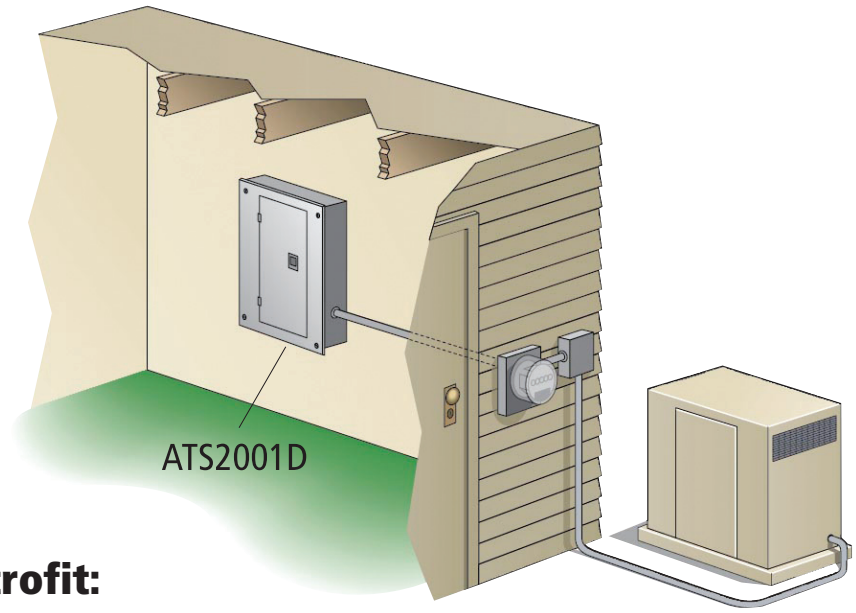
LEDS display the following information:

- *Generator Powering Load*
- *Generator Power Present*
- *Load Connected to Bus*
- *Utility Power Present*
- *Utility Powering Load*
- *Low Battery (flashing sequence)*

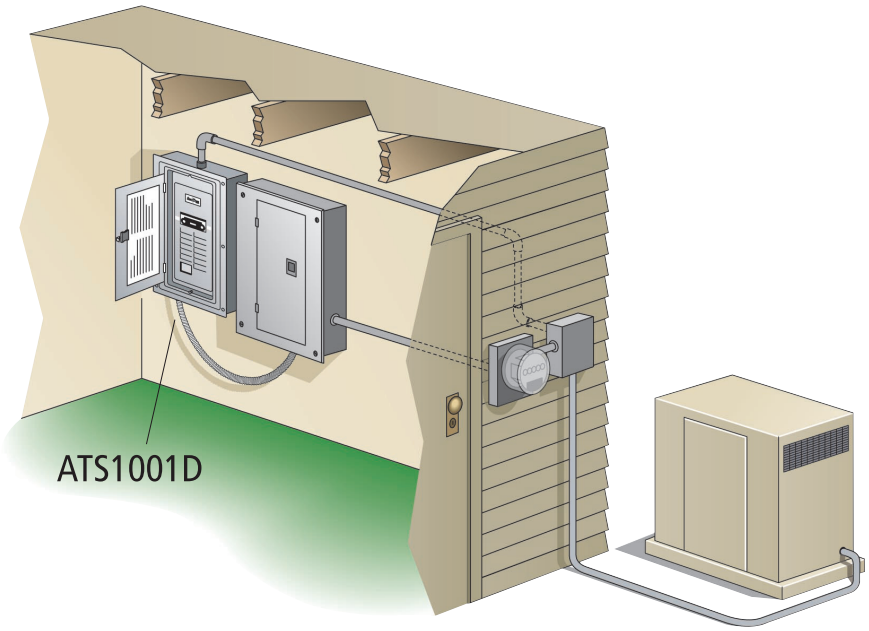


A DPDT relay may be required for connection to certain generators, Model ATSRK

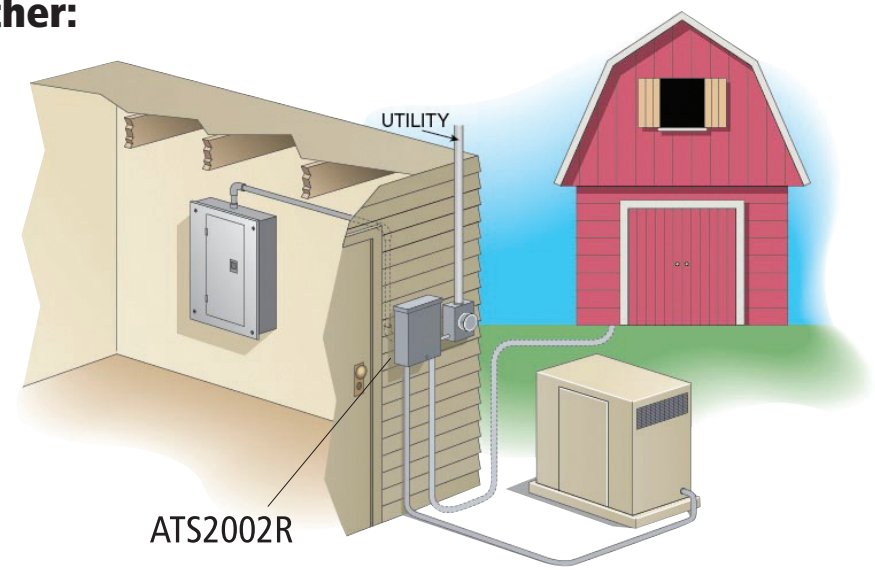
New Construction:



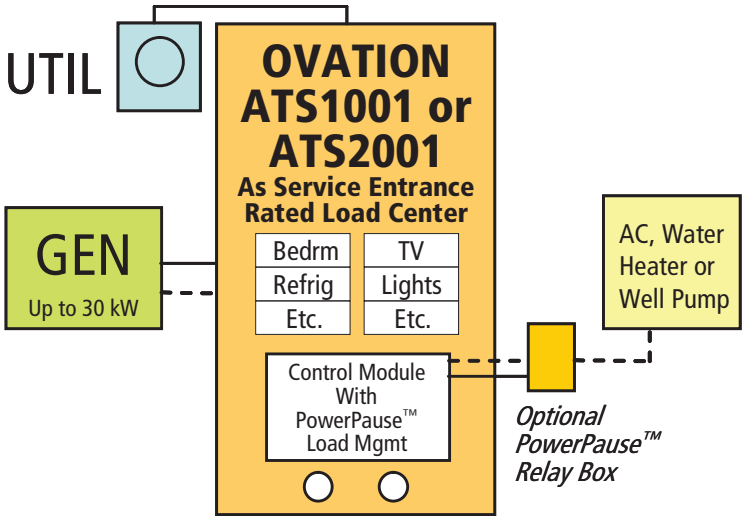
Retrofit:

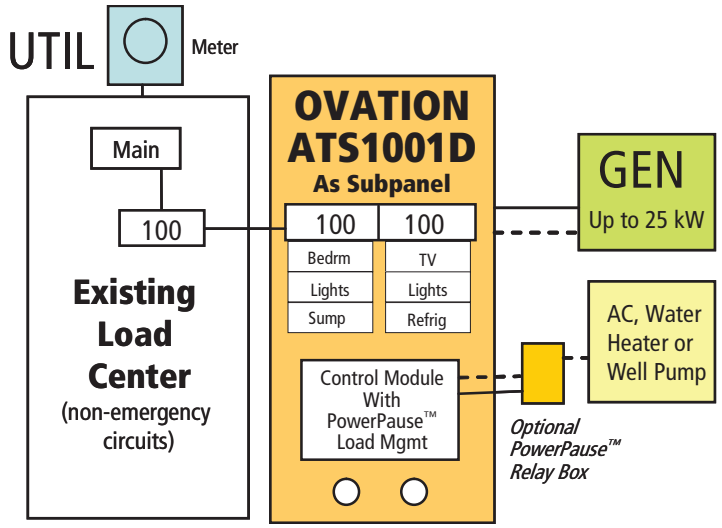


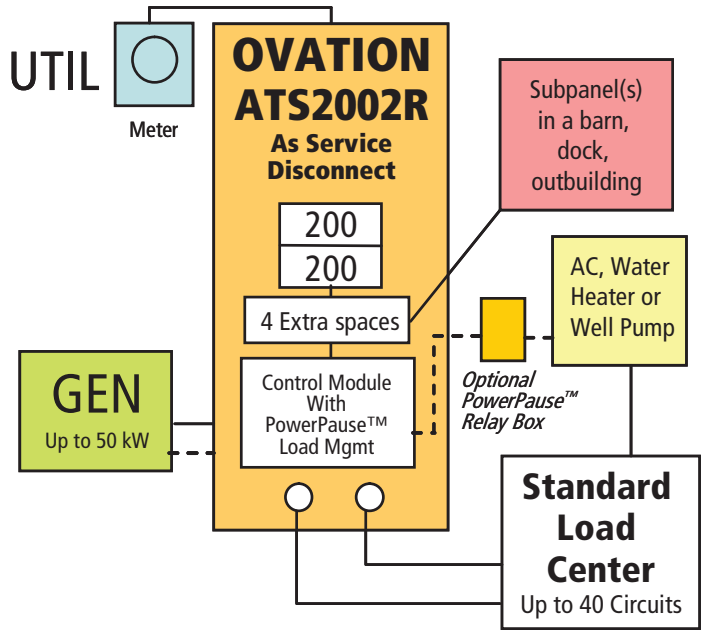
Either:



LLATION SCENARIOS:







INSTALLER FEATURES:

- *NEMA 1 or NEMA 3R enclosures available. NEMA 1 enclosures can be flush or surface mounted.*
- *Accepts these branch circuit breakers*:*
  - *Siemens® QE, QF, QP, QT, QPF, QPH, HQP, QAF, QFP, QEH, QFH, QNR, QNRH*
  - *Cutler-Hammer® BD, BQ, BR, GFC*
  - *Square D® Series HOM*
  - *GE® Series THQL and THHQL*
- *Systems work with virtually any stationary generator up to 50 kW, with 2-wire or 4-wire start*
- *Ideal for new construction - Eliminates the need for a separate load center and/or service disconnect*
- *Each Ovation™ ATS model includes main breakers, interlock, Control Module. Branch circuit breakers, wiring, conduit, fittings and relays provided by installer.*
- *Optional PowerPause™ Load Management modules available for load lockout or load shedding*
- *PowerPause™ Relay Boxes available so you don't have to search high and low for the right components for each installation*

USER FEATURES:

- *Combines a load center, automatic transfer switch and utility disconnect to eliminate extra wiring and labor costs*
- *Selectable exercise intervals from 0, 7, 14, 28 days. Set to "0" to use generator's default interval with or without load.*
- *System Reset and System Test*
- *Manual Override-Start/Stop Generator*

OPTIONS:

- *PowerPause™ Load Management Modules*
- *PowerPause™ Relay Boxes*
- *Surge Suppression*

** Branch circuit breakers provided by installer*

POWERPAUSE™ LOAD MANAGEMENT:

- *Reduces your generator investment by as much as 40%*
- *Optimizes the capacity of a moderately sized generator*
- *Eliminates the risk of overloading the generator and avoids nuisance tripping*
- *Allows you to enjoy some household conveniences when generator capacity is available*
- *Each Ovation™ Series ATS accepts up to three (3) PowerPause™ Load Management modules (sold separately) to control up to six (6) 240V circuits (or 12 x 120V)*
- *Also supports Load Lockout to disconnect selected loads before transfer to standby*

PowerPause™ Load Management Modules (Model LSM) plug into the Control Module in minutes to maximize generator capacity.

HOW POWERPAUSE™ LOAD MANAGEMENT WORKS

- *When utility power shuts off, appliances connected to PowerPause™ Load Management modules will be locked out for five (5) minutes.*
- *As generator capacity becomes available, Ovation™ Series ATS will attempt to turn on each PowerPause load according to priority until generator reaches 85% output utilization.*
- *If there is adequate capacity to start/run those appliances connected to the PowerPause™ modules (through learning how much power they need), then the Ovation Series ATS will start and manage them.*

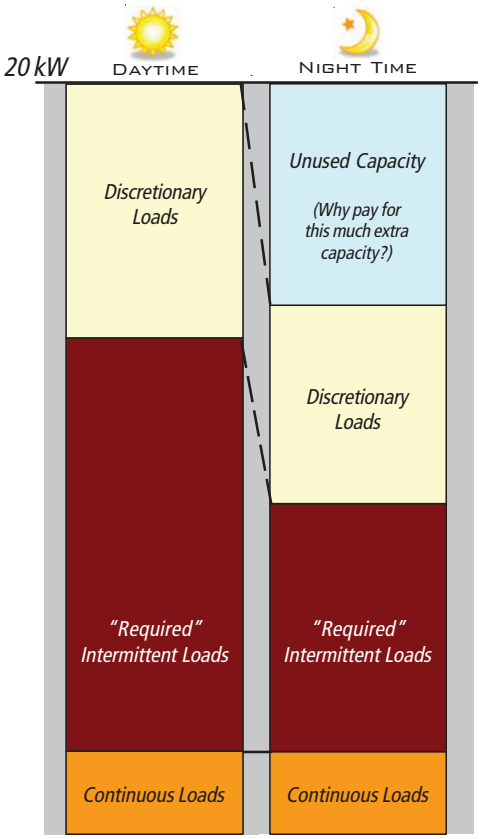
OPTIONAL POWERPAUSE™ RELAY BOX

Provided for installer convenience, these relay boxes are used in conjunction with the PowerPause™ Load Management modules when in-line relays are required to start/stop appliances.

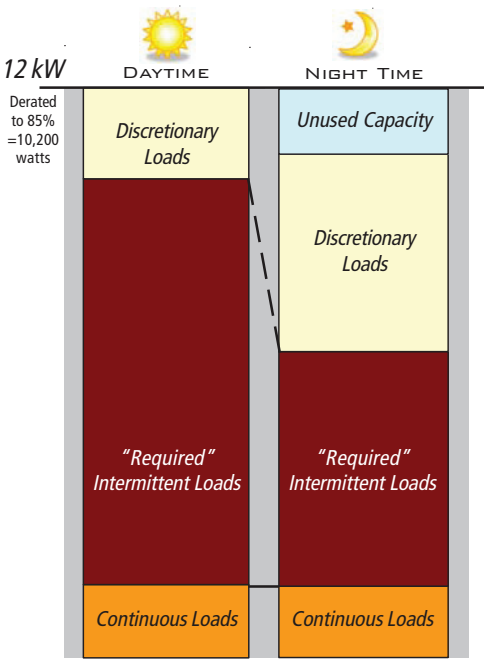
Model PP30-2 shown here (cover removed) with two 30 Amp relays.

May 2009

Reduce Your Generator Investment by as Much as 40% With PowerPause™ Load Management



Household power consumption varies throughout the day with appliances/ circuits turning on and off by human intervention or by demand.



Traditional standby installations require oversizing the generator by as much as 40% to ensure sufficient capacity for all connected loads.

A system configured with PowerPause™ Load Management allows most loads to run when required...But with a 40% smaller generator investment as well as reduced operating costs.

POWERPAUSE™ RELAY BOX CONFIGURATIONS

POWERPAUSE RELAY BOX MODEL	PP30-1	PP30-2	PP50-1	PP50-2
Number of 2-pole Relays Provided	1	2	1	2
Contactor Rating	30 A @ 240 VAC	30 A @ 240 VAC	50 A @ 240 VAC	50 A @ 240 VAC
Voltage	120/240 VAC	120/240 VAC	120/240 VAC	120/240 VAC
Frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Coil Voltage	120 VAC	120 VAC	120 VAC	120 VAC
# Circuits	1x 2-pole (240 V) OR 2 x 1-pole (120 V)	2x 2-pole (240 V) OR 4 x 1-pole (120 V)	1x 2-pole (240 V) OR 2 x 1-pole (120 V)	2x 2-pole (240 V) OR 4 x 1-pole (120 V)
Appliances	Water Heater, Air Conditioner, Well Pump Pool Pump	Water Heater, Air Conditioner, Well Pump Pool Pump	Water Heater, Air Conditioner, Pool Pump Electric Range, Spa	Water Heater, Air Conditioner, Pool Pump Electric Range, Spa
NEMA 3R Box Dimensions	8-1/4"W x 10"H x 4-1/4"D	8-1/4"W x 10"H x 4-1/4"D	8-1/4"W x 10"H x 4-1/4"D	**8-1/4"W x 10"H x 4-1/4"D**
Unit Weight lbs	6 Lbs	8 Lbs	6 Lbs	8 Lbs

IMPORTANT: Ovation™ Series ATS systems must be installed by a professional electrician familiar with residential or commercial electrical wiring, building codes and stationary generators. Systems must be installed in accordance with all national and local codes and ordinances. GenTran is not responsible for incorrect or inappropriate installation. Ovation™ Series ATS models comply with NEC Articles 702.5 and 702.6 (NFPA 70) for Optional Standby Systems, and are UL Listed to UL 1008. All Ovation™ Series ATS models are suitable as service entrance equipment in the United States.

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Gen-Tran® CORPORATION